



2007 City of Solon

PHASE 2 STORM WATER MANAGEMENT ANNUAL REPORT

Public Education and Outreach

Curb Markers: Effective

No new stickers were applied in 2007. All the previous stickers remain in tact and the City is continuing to make it standard to change all castings on reconstructed and newly placed catch basins with the “DUMP NO WASTE DRAINS TO WATERWAYS” message. The City of Solon feels the castings are durable and quite effective. This year the City of Solon installed these new castings at the following locations:

Bunker Hill Drive	20
Linden Dr. (Allotment Phase II-A)	9

Educational Brochures - Effective

During 2007, in addition to the usual locations used for displaying and making educational material available to the public, the City attempted to reach a larger audience by making brochures available at all City facilities typically visited by the public. We also distributed material through churches, medical buildings and stores.

At our annual home days event, we distributed stickers, brochures, showed a video tour through our waste water treatment plant, graded 84 watershed quizzes which were filled out by residents visiting our booth, and we provided 100 stormwater challenge placemats for the annual pancake breakfast. A summary of educational brochures distributed is included as Attachment A.

City Participation in Partnership – Highly Effective

City has maintained a Trustee standing with the Chagrin River Watershed Partners and actively participated in their meetings and functions. The CRWP members and staff continue to be extremely helpful by sharing information and supporting our Storm Water Management Program.

Web Page – Highly Effective

The City of Solon is constantly working on adding new information and updating material on its website. We have worked with help from The Chagrin River Watershed Partners on making the City’s stormwater page informational, and yet, still very functional. A few sample pages look like including different ordinance pages and links to other site including the Ohio EPA and Cuyahoga Soil and Water Conservation District have been included as Attachment B.

Drainage Problem Questionnaires - Effective

The City of Solon received 14 Drainage Problem Questionnaires from residents in 2007. The City has taken steps to resolve 5 of the drainage concerns, 2 of which were reported in 2006. We are currently working on a few others. The steps taken varied from installing new catch basins, grading, ditching, to the reconfiguration of a storm lateral. Seven of the Questionnaires submitted were involving private property drainage issues which the Engineering Department offered recommendations to the residents and followed up with any work that may have been performed to resolve the issues.

Storm Water Update – Newsletter - Effective

The Mayor and the Public Works Commissioner sent a Storm Water Update newsletter to every resident in the City for the purpose of educating the general public about storm water systems and providing a very brief summary of what the City has been doing since the June 22nd storm and what is planned for 2007 to address storm water related issues. We continued to provide this newsletter to residents with stormwater concerns during 2007. A copy of the newsletter is included in this report as Attachment C.

Public Participation and Involvement

Public Meetings – Highly Effective

The Public Works Commissioner provides a stormwater update to City Council and the entire public a regularly scheduled and aired Council Meetings and meetings of the Public Works Committee. These meetings are also available for the public to view at the City Website.

Citizen's Committee on Storm Water – Highly Effective

In response to the major storm event of June 22, 2006, the mayor assembled a committee of concerned citizens, qualified to investigate, analyze and make recommendations on the operation of the City's storm and sanitary sewer systems for both minor and major events and to communicate their findings to the public. The Citizens Committee on Storm Water met regularly during the past year. The committees meetings are open to the public. The committee has continued to meet regularly during 2007. Minutes from the meetings have been included in this report as Attachment D.

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Community Television Channel - Effective

The Public Works Commissioner provides a stormwater update to City Council and the entire public a regularly scheduled and aired Council Meetings and meetings of the Public Works Committee. These meetings are also available for the public to view at the City Website.

Construction Site Runoff Control

Ordinance & Design Criteria Review – Highly Effective

Erosion and Sedimentation

This ordinance was approved by Solon City Council on February 4, 2008. The appropriate language was added to the existing Codified Ordinance Chapter 1254, “Erosion and Sedimentation in Vacant Land Development.” A copy of the revisions made to this ordinance has been included as Attachment E.

On-site City Inspections: Highly Effective

The City of Solon Engineering Department, City Inspectors, Cuyahoga Soil and Water Conservation District, Private Inspection Firms, Contractors and Builders are continuing to perform and document inspections of active building sites to comply with the City’s NPDES MS4 permit.

The City of Solon Engineering Department and Inspectors have performed site inspections at the following locations.

Nestle Culinary Art Center	3
Thornbury Subdivision	36
NorthPark Subdivision	3
Brookside Subdivision	4
Comparison Market	1

The Cuyahoga Soil and Water Conservation District assist the City through a Memorandum of Understanding enacted in January of 2006. This MOU establishes an ongoing program with respect to performing on site inspections at the following projects within the City of Solon in 2007.

Brookside Estates	12
Shops of Solon North	12
Springside Lane	1
Thornbury, Phase 7	12
Thornbury, Phase 8	12
Key Bank Operation Center	3

The Cuyahoga Soil and Water Conservation District also performed the following plan reviews for the City of Solon:

Stone Creek Estates	3
Key Bank Operation Center	3

The City also has Builders hiring private inspection firms to perform onsite inspections.

Shops of Solon North	5
Key Bank Operation Center	6

Contractors/Builders are also asked to submit inspection reports.

Nestle Culinary Art Center	13
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Attached are a few examples of the different inspection reports. We will also include pictures on some inspection. Attached are three pictures including a vehicle tire wash and concrete wash out bags in use. Copies of all these reports and pictures are kept on file in the Engineering Department.

The City of Solon Engineering and Building Departments have also continued in distributing educational/policy material with each new house permit. These include a copy the standard detail for a construction drive entrance as per the Rainwater Manual along with a pamphlet on Erosion and Sediment Control for Individual Lot Protection. In 2007 the City had 24 new home residential permits. A copy of the material distributed and other items referenced in this section have been included as Attachment F.

Non-compliance Notification Procedure: Effective

The City of Solon notifies all builders, contractors and residents that are in non-compliance with respect to the City's NPDES MS4 permit. A copy of the onsite inspection report that is performed is given to the person/persons that are in non-compliance with the City. If the person/persons are not available onsite, a copy is mailed or faxed to them. After a reinspection of the site the Engineering Department will follow up with a letter to the person/persons who are still non-compliant. If still nothing is completed either a stop work order is issued or no further permits would be issued by the Solon Building Department until it is determined the site is in compliance. The Engineering Department is continuing to strive on finding the most effective ways of notification and enforcement with all noncompliance issues.

Included as Attachment G are a few examples. Copies of all the letters, faxes, etc. are kept on file in the Engineering Department.

Postconstruction Runoff Control

Ordinance & Design Criteria Review – Highly Effective

Post Construction Storm Water Control:

This new Ordinance, Chapter 1257, “Comprehensive Stormwater Management” was drafted in late fall of 2007 and introduced to the City Council in January, 2008. It is anticipated that the final version will be passed in April 2008. A copy of this ordinance as it is being presented to our City Council is included in this report as Attachment H.

Storm Water Maintenance:

The Planning and Zoning Code, 1288, “Prohibition of Specific Property Conditions,” was amended to include a new section, 1288.02 (8) called “Maintenance of stormwater Management Systems.” This Amendment was approved by the Solon City Council on June 18, 2007. A copy of the ordinance amending this code has been included in this report as Attachment I.

On-site City Inspections – Highly Effective

Retention / Detention Basin Inspection and Cleaning

The service department has continued to systematically inspect every retention and detention basin in the city, compare existing conditions to design plans or as-built drawings, acquire right of entry agreement from owners and restore basins to original condition using service department forces or a private contractor.

Once the basins have been restored to their original or intended and maintainable condition, annual inspection, by service department staff will verify that proper maintenance is being performed by the owner.

The City has provided assistance to owners of detention basins that serve residential areas by providing each of them with a handbook that describes typical maintenance activities and a system for logging these activities as they are performed to submit the Service Department annually. A copy of this handbook has been included in this report as Attachment J.

Storm Water & Sanitary Task Force - Effective

The Storm Water & Sanitary Taskforce continued to meet regularly throughout 2007 to address storm water and other various issues. Minutes of these meetings are kept on file in the office of the Assistant Public Works Commissioner.

City Construction Projects – Highly Effective

Bunker Hill Storm Sewer:

This project consisted of removing and replacing the existing storm sewer system with a completely new storm sewer system. The improvements included new reinforced concrete pipe (RCP), manholes, inlet basins, catch basins, two culvert replacements, new individual storm laterals, pavement replacement and restoration. This project is currently substantially complete.

422 Pond Outfall Repair Project:

The 422 Outfall Pond Project is being performed in order to repair three storm water outfalls that discharge to an existing pond. The repairs include a new concrete drop structure, piping and headwall; removal of existing piping and debris; construction of a new headwall; regrading; stream restoration; construction access roads; maintenance of traffic on US 422; erosion and sedimentation control measures; and restoration. This project is currently ongoing.

Allotment Phase II Infrastructure Project:

This project consisted of improvements on Linden Dr. from Solon Blvd. to Parkway Drive. These improvements included the installation of new sanitary and storm sewers, new individual storm and sanitary lateral connections, water lines, pavement replacement and restoration. This project is currently substantially complete.

2007 Annual Catch Basin Repairs:

Under this annual contract the City repaired/rebuilt 37 catch basins throughout the city.

2007 Annual Manhole Repairs:

Under this annual contract the City repaired/rebuilt 34 manholes throughout the city.

Storm Water Modeling – Highly Effective

The City of Solon has contracted with an outside consultant to prepare a computer model of two of the seven watersheds within the City. The watersheds that will be modeled at this time include the East Liberty and East Beaver Meadow Drainage Areas. We hope that with good analysis of the information generated from these models it will help in the future design and implementation all of the City's storm water quantity and quality controls.

Illicit Discharge Detection and Elimination

Ordinance & Design Criteria Review – Highly Effective

Illicit Discharge and Elimination:

The proper language for this minimum control measure was incorporated into the existing Codified Ordinance Chapter 1482, “Sanitation, Drainage and Sewerage”, Section 1482.09 and was approved by Solon City Council on October 1, 2007. A copy of the ordinance has been included in this report as attachment K.

Map / Inventory Open Channel System – Highly Effective

The City has included the names and locations of major receiving streams on our GIS storm sewer map. A copy of this map has been included in this report as attachment L.

Map / Inventory Piped System – Highly Effective

The Engineering Department continues to require as-built drawings on all projects performed within the City. The CAD files of the completed sewer projects are then sent to our Planning Department where the GIS maps are then updated.

With the near completion of the City’s Aurora East project which consists of major infrastructure improvements including the installation of miles of new sanitary and storm sewers. The Engineering Department has on recorded 167 Home Sewage Treatment Systems (HSTS) were eliminated in 2007. The City will continue to inspect all residents and business that abandon their home treatment system’s and connect into the City’s sanitary sewers. These inspections are documented and kept on file in the Engineering Department.

The City has GPS located the outfall of all City owned storm sewers in our system and identified their locations on our GIS storm sewer map which has been included in this report as attachment L.

Cross Connection Identification Program – Highly Effective

Flow Monitoring – Highly Effective

The City worked with a consulting firm to monitor flow in our entire sanitary sewer system is keeping flow meters in the system at 30 locations for 4 months during the spring and summer of 2007. The information gained from this program is being used to look for I / I problems and has resulted in the subsequent flow monitoring in two smaller areas, and smoke testing in another.

Voluntary Residential Dye Testing – Moderately Effective

During 2007, the Service Department performed voluntary residential dye tests of sewer systems on private properties. The City selected three subdivisions in which to perform these tests due to high incidents of flooding during heavy storms in recent years.

Each series of tests included notification by the City, a public meeting, written right-of-entry, scheduled appointments for residents participating and finally dye testing / flow testing every drain on the property at each location to verify that each is connected to the proper sewer main. No direct cross connections were identified.

The three subdivisions tested included:

Huntington

Huntington Woods

Bainbridge Park

Smoke Testing - Effective

During 2007, the City performed smoke testing in the Thornbury Subdivision. This location was selected as a result of prior flow monitoring efforts. These efforts resulted in the identification of 4 sanitary manholes requiring chimney seals and caps being needed on a sanitary lateral at one residence. No direct cross connections were identified.

Identification of Private vs. City Responsibilities - Effective

The Storm Water & Sanitary Taskforce has been the committee that makes determinations of what issues are private and which issues must be resolved privately.

The Public Works Commissioner has directed the City to proceed with inspecting and correcting retention and detention basin issues which are owned by residential subdivisions but will provide the benefit of improved drainage once they are restored.

Sanitary and Storm Sewer Projects

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Pollution Prevention / Good Housekeeping

Employee Education Program – Highly Effective

The Sewer Division Manager, 7 Service Department employees, one Water Reclamation Department employee and one Engineering Department employee all successfully completed the Operation and Maintenance of Wastewater Collection Systems course offered by the Office of Water Programs.

Of those employees completing the program, 3 now hold licenses as Class 1 Collection System Operators and 2 hold licenses as Class 2 Collection System Operators with the Ohio EPA.

The Engineering Department is continuing to attend training courses and seminars for continuing education as relates to storm water. A few courses attended by staff members in 2007 include: The Ohio LTAP Center, Storm Water Management Courses; Chagrin River Watersheds, Post Construction Controls; The Ohio EPA's, Pollution Prevention and Good Housekeeping for Storm Water Programs; Cleveland State Universities, NPDES Construction Site inspection; Cuyahoga County Board of Health, Illicit Discharge Detention Workshop.

Fertilizer Application Practices – Highly Effective

Employees applying fertilizer on City owned properties are Licensed applicators who make applications in a responsible manner and maintain records of each application.

Street Sweeping Practices – Highly Effective

The purpose of this report is to summarize the City of Solon's street sweeping program for the year of 2007. The service department employs the use of two street sweepers. The first one is a 2001 Elgin Geo Vac and it is the primary sweeper used through out the summer sweeping season. The second sweeper is a 1986 Elgin Whirlwind and its role is to serve as a back-up when the Geo Vac is out of service for maintenance or repairs. The past two years I have exhibited that with the help of the managers providing the time and the mechanics providing the guidance that time spent doing daily cleaning and maintenance/greasing of the Geo Vac has kept this equipment in service over 95% of the time during the summer sweeping season. The Whirlwind went out a total of three days in 2007. I think when you consider the complexity of this equipment, that kind of track record is exceptional at the very least.

The street sweepers were on the road a total of 67 days during the year of 2007. During the course of the season I was able to sweep all residential roads a total of two times with some residential roads receiving a third or fourth time through. The reason for this is that some roads less traveled stay cleaner longer while other roads with significantly higher traffic patterns need more attention. I was also able to sweep the "center of town" a total of twelve times. The definition of the "center of town" is route #91 from Inwood to Carriage Park, route #43 from Old South Miles to Portz Parkway, Bainbridge Road from Kruse Drive to City Hall and Solon Road from Davis Industrial to Erico Drive. In addition, the streets inside the area commonly referred to as the industrial area were swept a total of five times. In the spring of 2007 I came in very early on a Saturday morning and was able to give the #422 freeway on/off ramps three passes each. This summarizes the amount of sweeping that was completed in 2007.

I recorded the amount of debris picked up by the sweeper in a log book at the end of each day. The total amount of debris picked up in the year 2007 is an estimated 91.25 cubic yards. The debris picked up consisted mostly of gravel, concrete and asphalt particles, pop cans, plastic bottles, cigarette butts and litter. This debris was dumped on city property located on Hall Street. The debris was then dried out and loaded into a city truck and hauled to the landfill located in Waynesburg, Ohio.

In conclusion, after reviewing the previous information I think the Service Department did an excellent job providing the residents with a service that both beautifies and protects City of Solon.

Rain Gauge Program - Effective

The City has monitored rainfall information at 4 locations throughout the City in conjunction with flow monitoring efforts for 8 months.

Storm Sewer & Catch Basin Cleaning and Inspection Program – Highly Effective

Storm Sewer Cleaning - Effective

The storm sewer crew cleaned storm sewer mains on the following streets:

Fox Run
Liberty Road
Pettibone Road

Catch Basin Cleaning – Highly Effective

Our Storm Sewer Cleaning Crew cleaned 202 catch basins and their connections on the following streets. In addition, we cleaned catch basins for the reconstruction crew and as problems arose, mostly in back and side yard basins. Catch basins are inspected as they are cleaned and added to lists for repairs as needed.

Ada Drive
Cochran Road
Mayapple Circle
North Burr Oak
Seminole Way
Som Center Road
Spicebush
Waterpepper Circle

Arapaho Court
Lindsay Lane
Navajo Trail
Pettibone Road
Seneca
South Burr Oak
Teasle Court
White Oak

In addition to the catch basins cleaned by our crew, we also had 510 catch basins cleaned under contract by a contractor on the following streets. Catch basins are inspected as they are cleaned and added to lists for repairs as needed.

Angela Court	Arbordale Avenue
Arbor Glen	Ashton
Azalea Circle	Brookland Avenue
Cedar Court	Chagrin Highlands Drive
Cloverly Drive	Copley Avenue
Creekside Trail	Delamere Court
Denise Court	Duneden Avenue
Edgemooore Avenue	Estates Court
Forest Glen Avenue	Gaelic Glen
Glassgow Court	Glenallen Avenue
Glenlivet Court	Greenridge Avenue
Heather Lane	Huntington Drive
Inner Circle Court	Laura Lane
Limberlost Court	Loch Lomond
Lochmoor Court	Lochmoor Drive
Louise Drive	Meadowdale Drive
Morning Glory Circle	Naylor
North Huntington Drive	Orchard Avenue
Parkside Trail	Penfield
Sharondale Drive	Stonewood Lane
Sunnywood	Trails End
Windrush Drive	Windyhill Lane
Woodbury Drive	

The storm cleaning crew cleaned many back yard catch basins and jetted their connections and jetted many driveway culvert pipes.

TV Inspection of Storm Mains - Effective

Our TV crew performed inspections of storm sewer mains on the following streets:

Bunker Hill
Burlwood Drive
Solon Industrial Parkway
Woodsdale Lane

Sewer Repairs – Highly Effective

Storm Sewer Main Repairs:

Our excavating crew repaired storm sewer mains at the following locations:

Aurora Road	Brainard Road
Briarwood	Cannon Road
Harper Road	McAfee
Quartermaine	Sherwood
Solon Industrial Parkway	

The Storm Channel Rehabilitation Contractor repaired storm sewer mains at the following locations:

Deer Run

Culvert Pipe Repaired or Replaced:

Our excavating crew repaired or replaced culvert pipes at the following locations:

Bainbridge Road	Countryview
Dogwood	Lakeview
Liberty Road	Timberlane

Our Storm Channel Rehabilitation Contractor replaced a culvert pipe at the following location:

Countryview Lane

Storm Sewer Lateral Connections or Test Tee Installed or Repaired:

The excavating crew made repairs to storm sewer laterals and / or test tees at the following locations:

Blackberry Circle	Brainard Road
Fox Run	Glenallen
Jacklyn	Linden
Liberty Road	Limberlost
Meadowdale	Som Center Road

Storm Sewer Manhole adjusted to Grade:

Our excavating crew adjusted one storm sewer manhole to grade at the following location:

Som Center Road

Sanitary Sewer Mains Repaired:

The Storm Channel Rehabilitation Contractor repaired sanitary sewer mains at the following locations:

Woodsmoore

Catch Basin Installation:

Our Excavating crew installed new catch basins at the following locations:

Liberty Road
River Road

Bainbridge Road
Sherbrook

Catch Basins Adjusted or Repaired:

Our Excavating crew repaired or adjusted catch basins at the following locations:

McAffee
River Road
Summerset

Catch Basins Reconstructed:

Our catch basin / manhole brick crew reconstructed 55 catch basins on the following streets:

Arthur
Creekside Trail
Duneden
Hambleton Drive
North Chamberly
Popham Lane
Sedge Circle
Seminole Way
South Roundhead
Winchester

Brackenbury
Denise
Glenallen
Hanover Trail
North Roundhead
Popham Place
Seneca
South Chamberly
Summerset

Our Storm Channel Rehabilitation Contractor reconstructed catch basins at the following locations:

Creekside Trail
Som Center Road

Sanitary Sewer Test Tee or Lateral Connections Repaired

Our excavating crew repaired test tees and / or sanitary sewer laterals on the following streets:

Andre Lane	Cheswick
Cochran Road	Fairfield Oval
Fox Run	Linden Avenue
Richmond Road	Som Center
Springside	

Our Storm Channel Rehabilitation Contractor repaired test tees and / or sanitary sewer laterals on the following streets:

Camp Industrial
Coachman Lane
Woodsmoore

Sanitary sewer laterals installed

The entire Sewer Division installed two sanitary sewer laterals, converted the existing pump station and abandoned the existing wastewater treatment plant at Grantwood Golf Course:

Grantwood Club House
Grantwood Service Garage

The Storm Channel Rehabilitation Contractor installed a connection to the sanitary sewer main at the edge of pavement on Aurora Road for the service department to connect the Grantwood Service Garage lateral.

Sample Manhole Installed:

The excavating crew installed a sample manhole on the sanitary lateral at the following location:

Cochran Road

Cleaning of Creeks, Streams and Ditches – Highly Effective

Roadside Ditching:

Our excavating crew performed roadside ditching on the following streets:

Cannon Road

Liberty Road

Richmond Road

Forest Lane

McAfee

Solon Road

Creek Cleaning and Erosion Control:

Our excavating crew cleaned creeks and installed erosion control as needed at the following locations:

Aurora Road

Highland Drive

Liberty Road

Old Harper Road

Som Center Road

Spring Grove

Harper Road

Lakeview Drive

North Burr Oak

River Road

Spring Grove

Liberty Road

Our Storm Channel Rehabilitation Contractor cleaned creeks and installed erosion control as needed at the following locations:

Camp Industrial

Creekside Creek

Fountain Parkway

Som Center Road

Colonial Forest

Elm Hill Drive

Solon Industrial Parkway

South Burr Oak

Inspection of Creeks and Streams:

During 2007, the Service Department employed two seasonal employees to systematically walk creeks, streams and ditches to look for various problems and concerns including; erosion, blockage, dumping and pollution. Concerns identified were addressed by the Sewer Division.

Flood Control – Highly Effective

The Sewer Division maintains a list of locations throughout the City of known trouble spots in the storm water drainage system. These locations are checked for problems every month and before and after major storms. The list is updated regularly to include new trouble spots as we become aware of them.

Retention / Detention Basin Inspections – Highly Effective

In 2007, the Service Department inspected and evaluated twenty-seven private retention/detention basins, the other two are public owned land. The reason for this inspection process is to restore detention basins to their original design condition. Secondly, we want to make sure that the basins were to function as they were originally intended to.

Our inspection process consists of a general evaluation of the land, and to compare the present condition to the original design. Here, we are looking for overgrowth of vegetation, accumulation of sedimentation, and signs of erosion. From there, we are looking for any obstructions in the waterways, along with the inlet and outfall systems.

By going through this comprehensive process, we have been able to clean several of the basins in the city. Not only drastically changing the beautification of the landscape, but also maximizing the functionality of the basin.

Finally, the Service Department has come up with an educational pamphlet on retention/detention basins for the public. This literature explains to the general public what a basin is, who maintains it, and a report form for residents to record and report all detention basin inspections and maintenance activities. This information is to be sent to the City annually for further investigation.

Detention Basin Cleaning:

As a result of detention basin inspections performed, several major rehabilitation projects have been performed throughout the City.

Our excavating crew cleaned, made minor improvements and restored detention basins to their design condition at the following locations:

Bramble Lane
Service Garage
High Point

Portz Parkway
Summerset

Our Storm Channel Rehabilitation Contractor cleaned, made minor improvements and restored detention basins to their design condition at the following locations:

Heritage Estates
Liberty Hills

Hidden Creek
Southside Park – work in progress

Stormwater Management Committee

In 2007, a stormwater management organizational structure was developed to clearly define specific assignments and responsibilities of our Storm Water Management Plan. The assignments were first broken down into responsibilities of various departments within the city. The responsibilities were then delegated, by the various department heads, to the individual most closely engaged in daily activities defined in the plan to plan, execute, keep records and provide information for the Stormwater Manager to report to the Ohio EPA.